


**SEIZURE SENSING AND DETECTION USING AN IMPLANTABLE DEVICE**

**Patent number:** EP1404216  
**Publication date:** 2004-04-07  
**Inventor:** PLESS BENJAMIN D (US)  
**Applicant:** NEUROPACE INC (US)  
**Classification:**  
- international: **A61B5/0476; A61B5/0476; (IPC1-7): A61B5/00**  
- european: **A61B5/0476**  
**Application number:** EP20020748010 20020628  
**Priority number(s):** WO2002US20630 20020628; US20010896092 20010628

**Also published as:**

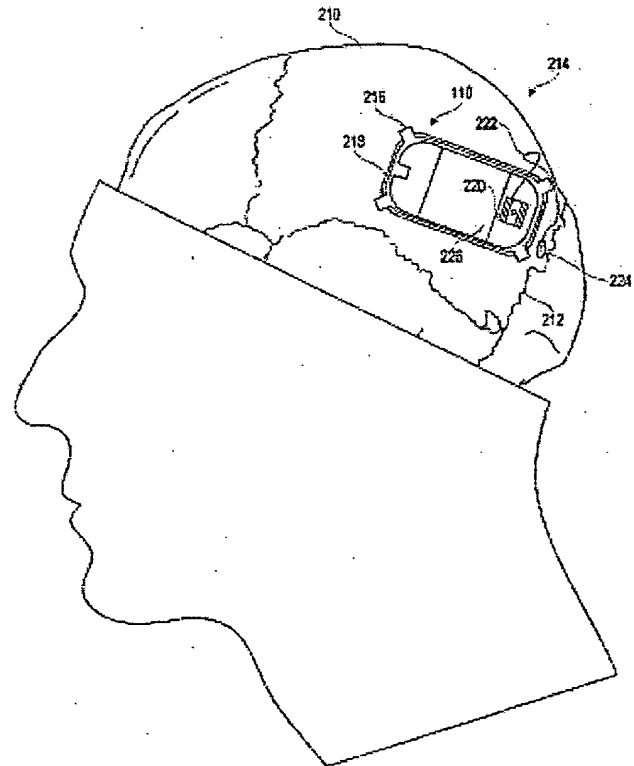
 WO03001996 (A3)  
WO03001996 (A2)  
EP1404216 (A3)  
US6810285 (B2)  
US2003004428 (A1)

more &gt;&gt;

[Report a data error here](#)

Abstract not available for EP1404216  
Abstract of correspondent: **US2003004428**

A system and method for detecting and predicting neurological events with an implantable device uses a relatively low-power central processing unit in connection with signal processing circuitry to identify features (including half waves) and calculate window-based characteristics (including line lengths and areas under the curve of the waveform) in an electrographic signal received from a patient's brain. The features and window-based characteristics are combinable in various ways according to the invention to detect and predict neurological events in real time, enabling responsive action by the implantable device.



---

Data supplied from the esp@cenet database - Worldwide